การเรียนต่อสาขาวิชาคอมพิวเตอร์ในสหรัฐอเมริกา ตอน 4

ดร.สุชาย ธนวเสถียร

ในตอนที่แล้ว ผมจบเรื่องที่คุณตกลงจะอยู่ใน สรอ.สักพัก เรื่องการอยู่สักพักนี้ ถ้าคุณมาทุนส่วนตัวย่อมไม่เป็นปัญหา แต่ถ้าคุณมาทุนราชการ การที่คุณจะหาประสบการณ์เพิ่มนั้นจะจำเป็นหรือไม่ก็แล้วแต่กรณีไป ปกติแล้วทางราชการไทยก็ขาดคนระดับนี้อยู่แล้ว ทางหัวหน้าของคุณก็ย่อมต้องการให้คุณกลับไปโดยด่วน จะได้นำวิชาการที่เรียนมาไปช่วยราชการได้ ปัญหาของหน่วยงานเมืองไทยที่ส่งคนมาเรียนทางสาขาคอมพิวเตอร์ระดับปริญญาเอกนั้นก็คือ **ส่งคนมาเรียนปริญญาเอกทางคอมพิวเตอร์โดยไม่ได้ระบุว่าให้ทำวิทยานิพนธ์ในสาขาย่อยอะไร** ถ้าเป็นเช่นนั้นแล้ว จะได้คนไปใช้งานถูกความต้องการได้ลำบาก ทั้งนี้ปริญญาเอกเป็นสาขาเจาะลึก ปกติแล้วคนเรียนจะเก่งจริงเฉพาะเรื่องวิทยานิพนธ์ที่ทำ อย่างอื่น ๆ ก็รู้ทั่ว ๆ ไป เรื่องนี้เป็นปัญหาที่แท้จริง ตัวอย่างได้แก่ หน่วยงาน A ซึ่งเป็นหน่วยงานเกี่ยวกับด้านการศึกษาทางสาขาบริหาร หรือทางเศรษฐศาสตร์ ส่งคนมาเรียน นาย B ปริญญาเอกทางคอมพิวเตอร์ คุณ B ก็สมัครมาได้ไปอยู่มหาวิทยาลัยดัง ไป ๆ มา ๆ นาย B ก็ไปทำวิทยานิพนธ์ด้านการออกแบบ VLSI หรือทางด้านสถาปัตยกรรมคอมพิวเตอร์พูดง่าย ๆ คือทำวิจัยด้านระบบฮาร์ดแวร์ อย่างนี้พอกลับไปทางหน่วยงาน A จะได้คนที่ไม่ตรงกับลักษณะงานที่ทำจริง ตามทฤษฎีแล้วถือว่าเสียประโยชน์ ทางปฏิบัติแล้วดือกเตอร์ไทยก็ถูไถไปได้หลายเรื่อง ไปเรื่อย ๆ ก็เป็นเอง แต่ต้องยอมรับเหมือนกันว่า การที่บังคับให้ทำสาขาย่อยอะไรนั้นอาจลำบาก (แต่ก็เป็นไปได้มาก) เพราะการหาหัวข้อวิทยานิพนธ์ทำนั้นขึ้นอยู่กับอาจารย์อยู่ส่วนหนึ่ง สมมุติว่าสำนักคุณต้องการให้คุณทำเอกและวิจัยในสาขาย่อยทางวิศวกรรมซอฟต์แวร์ แต่เนื่องจากมหาวิทยาลัยที่คุณไปไม่มีอาจารย์ทางด้านนี้ หรือมีอาจารย์ทางด้านนี้แต่ไม่ถูกดวงกันแล้วจะทำอย่างไร สรุปแล้วคุณควรมีทางเลือกที่จะทำวิจัยในสาขา 2–3 สาขาที่เกี่ยวหรือใกล้เคียงกัน

ส่วนในเรื่องหรือจบแล้ว (ในกรณีที่มาทุนราชการ) ควรทำงานเพิ่มเติมที่อเมริกาสัก 1 ปีหรือไม่นั้น ตามความคิดเห็นส่วนตัวผม ผมคิดว่าสมควร ถ้าคุณไม่คิดหนีทุน และทางราชการอนุมัติในเรื่องนี้ ถ้าคุณมาทุนมหาวิทยาลัย การที่คุณได้สอนและทำวิจัยที่นี่สักปี (ในยูระดับดีหน่อย) จะเป็นประโยชน์มากต่อการศึกษาของเมืองไทย ในกรณีเช่นนั้นคุณควรพยายามหาตำแหน่ง Visiting Assistant Professor อีกเรื่องคุณไม่ควรสอน/วิจัยที่มหาวิทยาลัยที่คุณจบ ควรไปแพร่พันธุ์ที่อื่นถ้าเป็นไปได้ สำหรับในกรณีที่คุณมาเงินทุนหน่วยงานเมืองไทยที่ไม่เกี่ยวกับการสอน คุณควรหางานบริษัท (ยากหน่อย) ที่เกี่ยวกับเรื่องที่คุณจะทำที่เมืองไทย คุณจะได้มีประสบการณ์ แต่กรณีนี้ก็ยากมากเพราะปกติแล้วบริษัทจะไม่ชอบคนเข้า ๆ ออก ๆ ดังนั้นถ้าหาได้ก็อยู่ ถ้าหาไม่ได้ก็กลับเท่านั้น

เรื่องการหาประสบการณ์นั้นเกี่ยวกับเมืองที่ไปอยู่ ถ้าคุณไปอยู่ที่ ๆ ใกล้แหล่งอุตสาหกรรม คุณจะมีโอกาสมากกว่าไปซุ่มอยู่ตามเมืองมหาวิทยาลัย ถ้าคุณไปยูระดับทอปเทน คุณก็มีโอกาสมากกว่าพวกจากยูอื่น บทความตอน 4 นี้ผมขอเสนอรายชื่อแผนกที่ให้ปริญญาเอกทางวิทยาศาสตร์คอมพิวเตอร์ (CS) และวิศวกรรมคอมพิวเตอร์ (CE) ทั้งใน สรอ. และแคนาดา รายชื่อชุดนี้เรียกว่า The Forsythe List of PhD Granting Departments of Computer Science and Computer Engineering สนับสนุนโดย The Computing Research Board และดำเนินเรื่องโดย Dr.Terry M.Walker ในรายการชื่อนั้นจะประกอบด้วยชื่อมหาวิทยาลัย ชื่อหัวหน้าแผนกเบอร์โทรศัพท์ ชื่อเลขา ที่อยู่แผนก และ CSNet Address

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